

PC10343C  
SEQUENCE LISTING

<110> Pfizer Inc.  
Pfizer Limited  
Maw, Graham Nigel  
Wayman, Christopher Peter

<120> Compounds for the Treatment of Female Sexual Dysfunction

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<151> 2000-11-08

<150> US 60/175,161  
<151> 2000-03-29

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<170> PatentIn version 3.2

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Tyr Gly Asn Phe Asp Ile Leu Arg Asp Glu Leu Glu Val Val Leu Lys  
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Asp Val Leu Gln Glu Pro Lys Thr Glu Asp Ile Val Ala Val Gln Lys  
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Ile Asp Glu Asn Gln Leu Ala Leu Glu Met Asn Lys Val Met Glu Leu  
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Glu Lys Glu Ile Ala Asn Ala Thr Ala Lys Pro Glu Asp Arg Asn Asp  
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Val Val Val Tyr Ala Pro Glu Tyr Leu Thr Lys Leu Lys Pro Ile Leu  
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Thr Lys Tyr Ser Ala Arg Asp Leu Gln Asn Leu Met Ser Trp Arg Phe  
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Gly Arg Leu Tyr Val Glu Ala Ala Phe Ala Gly Glu Ser Lys His Val  
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Val Glu Asp Leu Ile Ala Gln Ile Arg Glu Val Phe Ile Gln Thr Leu  
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Lys Glu Gln Ser Gln Cys Met Val Tyr Gln Tyr Gly Asn Phe Ser Trp  
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His Ser Pro Gly Asn Phe Arg Ile Ile Gly Thr Leu Gln Asn Ser Ala  
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Val Val Asp Leu Lys Lys Asn Ile Glu Tyr Ala Ala Ser Val Leu Glu  
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55

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Leu Ser Asp Ile Gln Thr Asp Ser Val Pro Ser Glu Val Arg Asp Trp  
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Leu Ala Ser Thr Phe Thr Arg Lys Met Gly Met Thr Lys Lys Lys Pro  
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Glu Glu Lys Pro Lys Phe Arg Ser Ile Val His Ala Val Gln Ala Gly  
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Phe Lys Ile Pro Val Ser Cys Leu Ile Thr Phe Ala Glu Ala Leu Glu  
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Val Gly Tyr Ser Lys Tyr Lys Asn Pro Tyr His Asn Leu Ile His Ala  
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Met His Trp Leu Thr Glu Leu Glu Ile Leu Ala Met Val Phe Ala Ala  
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Ala Ile His Asp Tyr Glu His Thr Gly Thr Thr Asn Asn Phe His Ile  
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Glu Asn His His Val Ser Ala Ala Tyr Arg Leu Met Gln Glu Glu Glu  
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Asn Leu Val Ile Glu Met Val Leu Ser Thr Asp Met Ser Gly His Phe  
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Gln Gln Ile Lys Asn Ile Arg Asn Ser Leu Gln Gln Pro Glu Gly Ile  
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Pro Pro His Glu Leu Pro Gln Glu Gly Lys Val Arg Glu Ala Ile Ile  
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Leu Gln Ala Val Glu Lys His Thr Leu Val Ala Leu Arg Arg Val Gln  
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Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp Met Ala Arg Tyr  
35 40 45

Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr  
50 55 60

Gly Lys Arg Ser Ser Pro Glu Thr Leu Ile Ser Asp Leu Leu Met Arg  
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Glu Ser Thr Glu Asn Val Pro Arg Thr Arg Leu Glu Asp Pro Ala Met  
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<212> DNA  
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<210> 9
<211> 384
<212> PRT
<213> Homo Sapiens

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<400> 9

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20          25          30

Cys His Leu Pro Leu Ala Met Ile Phe Thr Leu Ala Leu Ala Tyr Gly
35          40          45

Ala Val Ile Ile Leu Gly Val Ser Gly Asn Leu Ala Leu Ile Ile Ile
50          55          60

Ile Leu Lys Gln Lys Glu Met Arg Asn Val Thr Asn Ile Leu Ile Val
65          70          75          80

Asn Leu Ser Phe Ser Asp Leu Leu Val Ala Ile Met Cys Leu Pro Phe
85          90          95

Thr Phe Val Tyr Thr Leu Met Asp His Trp Val Phe Gly Glu Ala Met
100         105         110

Cys Lys Leu Asn Pro Phe Val Gln Cys Val Ser Ile Thr Val Ser Ile
115         120         125

Phe Ser Leu Val Leu Ile Ala Val Glu Arg His Gln Leu Ile Ile Asn
130         135         140

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Pro Arg Gly Trp Arg Pro Asn Asn Arg His Ala Tyr Val Gly Ile Ala  
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Val Ile Trp Val Leu Ala Val Ala Ser Ser Leu Pro Phe Leu Ile Tyr  
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Gln Val Met Thr Asp Glu Pro Phe Gln Asn Val Thr Leu Asp Ala Tyr  
180 185 190

Lys Asp Lys Tyr Val Cys Phe Asp Gln Phe Pro Ser Asp Ser His Arg  
195 200 205

Leu Ser Tyr Thr Thr Leu Leu Leu Val Leu Gln Tyr Phe Gly Pro Leu  
210 215 220

Cys Phe Ile Phe Ile Cys Tyr Phe Lys Ile Tyr Ile Arg Leu Lys Arg  
225 230 235 240

Arg Asn Asn Met Met Asp Lys Met Arg Asp Asn Lys Tyr Arg Ser Ser  
245 250 255

Glu Thr Lys Arg Ile Asn Ile Met Leu Leu Ser Ile Val Val Ala Phe  
260 265 270

Ala Val Cys Trp Leu Pro Leu Thr Ile Phe Asn Thr Val Phe Asp Trp  
275 280 285

Asn His Gln Ile Ile Ala Thr Cys Asn His Asn Leu Leu Phe Leu Leu  
290 295 300

Cys His Leu Thr Ala Met Ile Ser Thr Cys Val Asn Pro Ile Phe Tyr  
305 310 315 320

Gly Phe Leu Asn Lys Asn Phe Gln Arg Asp Leu Gln Phe Phe Phe Asn  
325 330 335

Phe Cys Asp Phe Arg Ser Arg Asp Asp Asp Tyr Glu Thr Ile Ala Met  
340 345 350

Ser Thr Met His Thr Asp Val Ser Lys Thr Ser Leu Lys Gln Ala Ser  
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Pro Val Ala Phe Lys Lys Ile Asn Asn Asn Asp Asp Asn Glu Lys Ile  
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## PC10343C

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Val Pro Asp Pro Glu Pro Glu Leu Ile Asp Ser Thr Lys Leu Ile Glu  
 35 40 45

Val Gln Val Val Leu Ile Leu Ala Tyr Cys Ser Ile Ile Leu Leu Gly  
 50 55 60

Val Ile Gly Asn Ser Leu Val Ile His Val Val Ile Lys Phe Lys Ser  
 65 70 75 80

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Met Arg Thr Val Thr Asn Phe Phe Ile Ala Asn Leu Ala Val Ala Asp  
85 90 95

Leu Leu Val Asn Thr Leu Cys Leu Pro Phe Thr Leu Thr Tyr Thr Leu  
100 105 110

Met Gly Glu Trp Lys Met Gly Pro Val Leu Cys His Leu Val Pro Tyr  
115 120 125

Ala Gln Gly Leu Ala Val Gln Val Ser Thr Ile Thr Leu Thr Val Ile  
130 135 140

Ala Leu Asp Arg His Arg Cys Ile Val Tyr His Leu Glu Ser Lys Ile  
145 150 155 160

Ser Lys Arg Ile Ser Phe Leu Ile Ile Gly Leu Ala Trp Gly Ile Ser  
165 170 175

Ala Leu Leu Ala Ser Pro Leu Ala Ile Phe Arg Glu Tyr Ser Leu Ile  
180 185 190

Glu Ile Ile Pro Asp Phe Glu Ile Val Ala Cys Thr Glu Lys Trp Pro  
195 200 205

Gly Glu Glu Lys Ser Ile Tyr Gly Thr Val Tyr Ser Leu Ser Ser Leu  
210 215 220

Leu Ile Leu Tyr Val Leu Pro Leu Gly Ile Ile Ser Phe Ser Tyr Thr  
225 230 235 240

Arg Ile Trp Ser Lys Leu Lys Asn His Val Ser Pro Gly Ala Ala Asn  
245 250 255

Asp His Tyr His Gln Arg Arg Gln Lys Thr Thr Lys Met Leu Val Cys  
260 265 270

Val Val Val Val Phe Ala Val Ser Trp Leu Pro Leu His Ala Phe Gln  
275 280 285

Leu Ala Val Asp Ile Asp Ser Gln Val Leu Asp Leu Lys Glu Tyr Lys  
290 295 300

Leu Ile Phe Thr Val Phe His Ile Ile Ala Met Cys Ser Thr Phe Ala  
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Asn Pro Leu Leu Tyr Gly Trp Met Asn Ser Asn Tyr Arg Lys Ala Phe  
325 330 335

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Leu Ser Ala Phe Arg Cys Glu Gln Arg Leu Asp Ala Ile His Ser Glu  
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Val Ser Val Thr Phe Lys Ala Lys Lys Asn Leu Glu Val Arg Lys Asn  
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Ser Gly Pro Asn Asp Ser Phe Thr Glu Ala Thr Asn Val  
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 <213> Homo Sapiens

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Tyr Lys Ser Ser Val Asp Asp Leu Gln Tyr Phe Leu Ile Gly Leu Tyr
      35      40      45

Thr Phe Val Ser Leu Leu Gly Phe Met Gly Asn Leu Leu Ile Leu Met
      50      55      60

Ala Leu Met Lys Lys Arg Asn Gln Lys Thr Thr Val Asn Phe Leu Ile
65      70      75      80

Gly Asn Leu Ala Phe Ser Asp Ile Leu Val Val Leu Phe Cys Ser Pro
      85      90      95

Phe Thr Leu Thr Ser Val Leu Leu Asp Gln Trp Met Phe Gly Lys Val
      100      105      110

Met Cys His Ile Met Pro Phe Leu Gln Cys Val Ser Val Leu Val Ser
      115      120      125

Thr Leu Ile Leu Ile Ser Ile Ala Ile Val Arg Tyr His Met Ile Lys
      130      135      140

His Pro Ile Ser Asn Asn Leu Thr Ala Asn His Gly Tyr Phe Leu Ile
145      150      155      160

Ala Thr Val Trp Thr Leu Gly Phe Ala Ile Cys Ser Pro Leu Pro Val
      165      170      175

Phe His Ser Leu Val Glu Leu Gln Glu Thr Phe Gly Ser Ala Leu Leu
      180      185      190

Ser Ser Arg Tyr Leu Cys Val Glu Ser Trp Pro Ser Asp Ser Tyr Arg
      195      200      205

Ile Ala Phe Thr Ile Ser Leu Leu Leu Val Gln Tyr Ile Leu Pro Leu
      210      215      220

Val Cys Leu Thr Val Ser His Thr Ser Val Cys Arg Ser Ile Ser Cys
225      230      235      240

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260 265 270

Gly Ser His Lys Trp Ser Tyr Ser Phe Ile Lys Lys His Arg Arg Arg  
275 280 285

Tyr Ser Lys Lys Thr Ala Cys Val Leu Pro Ala Pro Glu Arg Pro Ser  
290 295 300

Gln Glu Asn His Ser Arg Ile Leu Pro Glu Asn Phe Gly Ser Val Arg  
305 310 315 320

Ser Gln Leu Ser Ser Ser Ser Lys Phe Ile Pro Gly Val Pro Thr Cys  
325 330 335

Phe Glu Ile Lys Pro Glu Glu Asn Ser Asp Val His Glu Leu Arg Val  
340 345 350

Lys Arg Ser Val Thr Arg Ile Lys Lys Arg Ser Arg Ser Val Phe Tyr  
355 360 365

Arg Leu Thr Ile Leu Ile Leu Val Phe Ala Val Ser Trp Met Pro Leu  
370 375 380

His Leu Phe His Val Val Thr Asp Phe Asn Asp Asn Leu Ile Ser Asn  
385 390 395 400

Arg His Phe Lys Leu Val Tyr Cys Ile Cys His Leu Leu Gly Met Met  
405 410 415

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Lys Ala Asp Leu Val Ser Leu Ile His Cys Leu His Met  
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<110> Pfizer Inc.  
Pfizer Limited  
Maw, Graham Nigel  
Wayman, Christopher Peter

<120> Compounds for the Treatment of Female Sexual Dysfunction

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<151> 2000-11-08

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PC10343C

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Lys Asp Lys Tyr Val Cys Phe Asp Gln Phe Pro Ser Asp Ser His Arg  
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Met Gly Glu Trp Lys Met Gly Pro Val Leu Cys His Leu Val Pro Tyr  
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Ala Leu Asp Arg His Arg Cys Ile Val Tyr His Leu Glu Ser Lys Ile  
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Ser Lys Arg Ile Ser Phe Leu Ile Ile Gly Leu Ala Trp Gly Ile Ser  
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Ala Leu Leu Ala Ser Pro Leu Ala Ile Phe Arg Glu Tyr Ser Leu Ile  
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Glu Ile Ile Pro Asp Phe Glu Ile Val Ala Cys Thr Glu Lys Trp Pro  
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Arg Ile Trp Ser Lys Leu Lys Asn His Val Ser Pro Gly Ala Ala Asn  
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Asp His Tyr His Gln Arg Arg Gln Lys Thr Thr Lys Met Leu Val Cys  
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Val Val Val Val Phe Ala Val Ser Trp Leu Pro Leu His Ala Phe Gln  
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Leu Ala Val Asp Ile Asp Ser Gln Val Leu Asp Leu Lys Glu Tyr Lys  
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Leu Ile Phe Thr Val Phe His Ile Ile Ala Met Cys Ser Thr Phe Ala  
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Asn Pro Leu Leu Tyr Gly Trp Met Asn Ser Asn Tyr Arg Lys Ala Phe  
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Tyr Lys Ser Ser Val Asp Asp Leu Gln Tyr Phe Leu Ile Gly Leu Tyr  
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Thr Phe Val Ser Leu Leu Gly Phe Met Gly Asn Leu Leu Ile Leu Met  
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Ala Leu Met Lys Lys Arg Asn Gln Lys Thr Thr Val Asn Phe Leu Ile  
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Gly Asn Leu Ala Phe Ser Asp Ile Leu Val Val Leu Phe Cys Ser Pro  
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Phe Thr Leu Thr Ser Val Leu Leu Asp Gln Trp Met Phe Gly Lys Val  
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Met Cys His Ile Met Pro Phe Leu Gln Cys Val Ser Val Leu Val Ser  
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Thr Leu Ile Leu Ile Ser Ile Ala Ile Val Arg Tyr His Met Ile Lys  
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His Pro Ile Ser Asn Asn Leu Thr Ala Asn His Gly Tyr Phe Leu Ile  
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Ala Thr Val Trp Thr Leu Gly Phe Ala Ile Cys Ser Pro Leu Pro Val  
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Ser Ser Arg Tyr Leu Cys Val Glu Ser Trp Pro Ser Asp Ser Tyr Arg  
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Val Cys Leu Thr Val Ser His Thr Ser Val Cys Arg Ser Ile Ser Cys  
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260 265 270

Gly Ser His Lys Trp Ser Tyr Ser Phe Ile Lys Lys His Arg Arg Arg  
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Tyr Ser Lys Lys Thr Ala Cys Val Leu Pro Ala Pro Glu Arg Pro Ser  
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Gln Glu Asn His Ser Arg Ile Leu Pro Glu Asn Phe Gly Ser Val Arg  
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Ser Gln Leu Ser Ser Ser Ser Lys Phe Ile Pro Gly Val Pro Thr Cys  
325 330 335

Phe Glu Ile Lys Pro Glu Glu Asn Ser Asp Val His Glu Leu Arg Val  
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Lys Arg Ser Val Thr Arg Ile Lys Lys Arg Ser Arg Ser Val Phe Tyr  
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Arg Leu Thr Ile Leu Ile Leu Val Phe Ala Val Ser Trp Met Pro Leu  
370 375 380

His Leu Phe His Val Val Thr Asp Phe Asn Asp Asn Leu Ile Ser Asn  
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Arg His Phe Lys Leu Val Tyr Cys Ile Cys His Leu Leu Gly Met Met  
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PC10343C

Pro Asp Gln Val Ser Leu Lys Glu Asp Ile Asp Met Leu Gln Asn Ala  
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Leu Ala Glu Asn Asp Thr Pro Tyr Tyr Asp Val Ser Arg Asn Ala Arg  
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His Ala Asp Gly Val Phe Thr Ser Asp Phe Ser Lys Leu Leu Gly Gln  
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Leu Ser Ala Lys Lys Tyr Leu Glu Ser Leu Met Gly Lys Arg Val Ser  
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Ser Asn Ile Ser Glu Asp Pro Val Pro Val Lys Arg His Ser Asp Ala  
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Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln Met Ala Val Lys  
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PC10343C

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Pro Asp Gln Val Ser Leu Lys Glu Asp Ile Asp Met Leu Gln Asn Ala  
 50 55 60

Leu Ala Glu Asn Asp Thr Pro Tyr Tyr Asp Val Ser Arg Asn Ala Arg  
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His Ala Asp Gly Val Phe Thr Ser Asp Phe Ser Lys Leu Leu Gly Gln  
 85 90 95

Leu Ser Ala Lys Lys Tyr Leu Glu Ser Leu Met Gly Lys Arg Val Ser  
 100 105 110

PC10343C

Ser Asn Ile Ser Glu Asp Pro Val Pro Val Lys Arg His Ser Asp Ala  
115 120 125

Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln Met Ala Val Lys  
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Glu Glu Glu Thr Lys Cys Thr Glu Leu Leu Arg Ser Gln Thr Glu Lys  
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His Lys Ala Cys Ser Gly Val Trp Asp Asn Ile Thr Cys Trp Arg Pro  
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Gly Trp Ser Glu Thr Phe Pro Asp Phe Val Asp Ala Cys Gly Tyr Ser  
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Ser Ile Ile Leu Cys Leu Phe Arg Lys Leu His Cys Thr Arg Asn Tyr  
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 Arg Asp Tyr Arg Val Cys Gly Ser Ser Phe Ser His Asn Gly Ser Glu  
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